POWER MANAGEMENT PORTFOLIO

POWER CONVERSION COMPONENTS FOR HIGH-EFFICIENCY ELECTRONICS.

IGBT, SiC MOSFET, MOSFET and converter programs for industrial drives, e-mobility, renewable energy, medical electronics and protected power delivery.

VOLTAGE CLASSES	CURRENT RATINGS	STANDARDS
650 / 1200 V	10-600 A	IEC / UL

FOUR POWER FAMILIES, ONE TECHNICAL SOURCING LAYER.

IGBT

650 V / 1200 V
10 A to 600 A

Industrial drives, automotive, renewable energy and appliance platforms.

SIC MOSFET

Low RDS(on)
High frequency

Compact, thermally resilient switching for efficient power conversion.

MOSFET

20 V to 45 V
Discrete / bare die

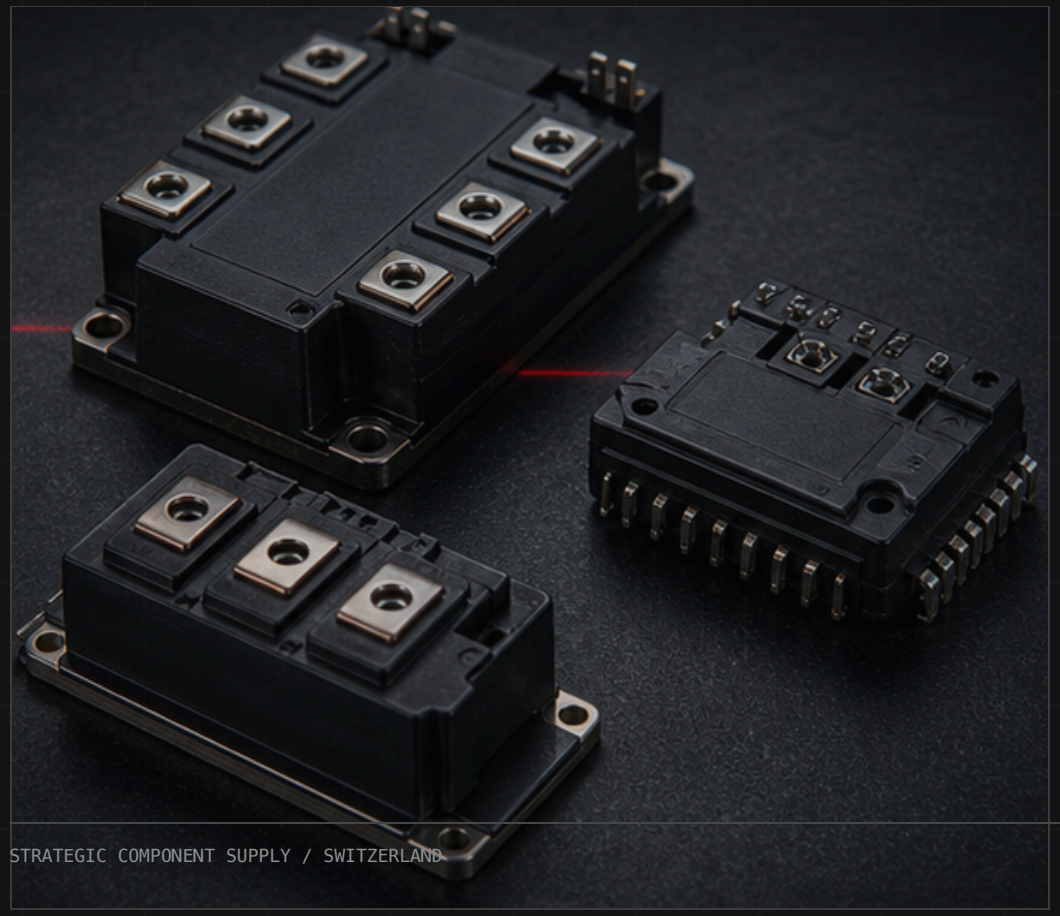
Scalable low and medium power switching for drive and energy systems.

CONVERTERS

AC/DC / DC/DC
Protected output

Regulated power interfaces for sensitive industrial and ICT loads.

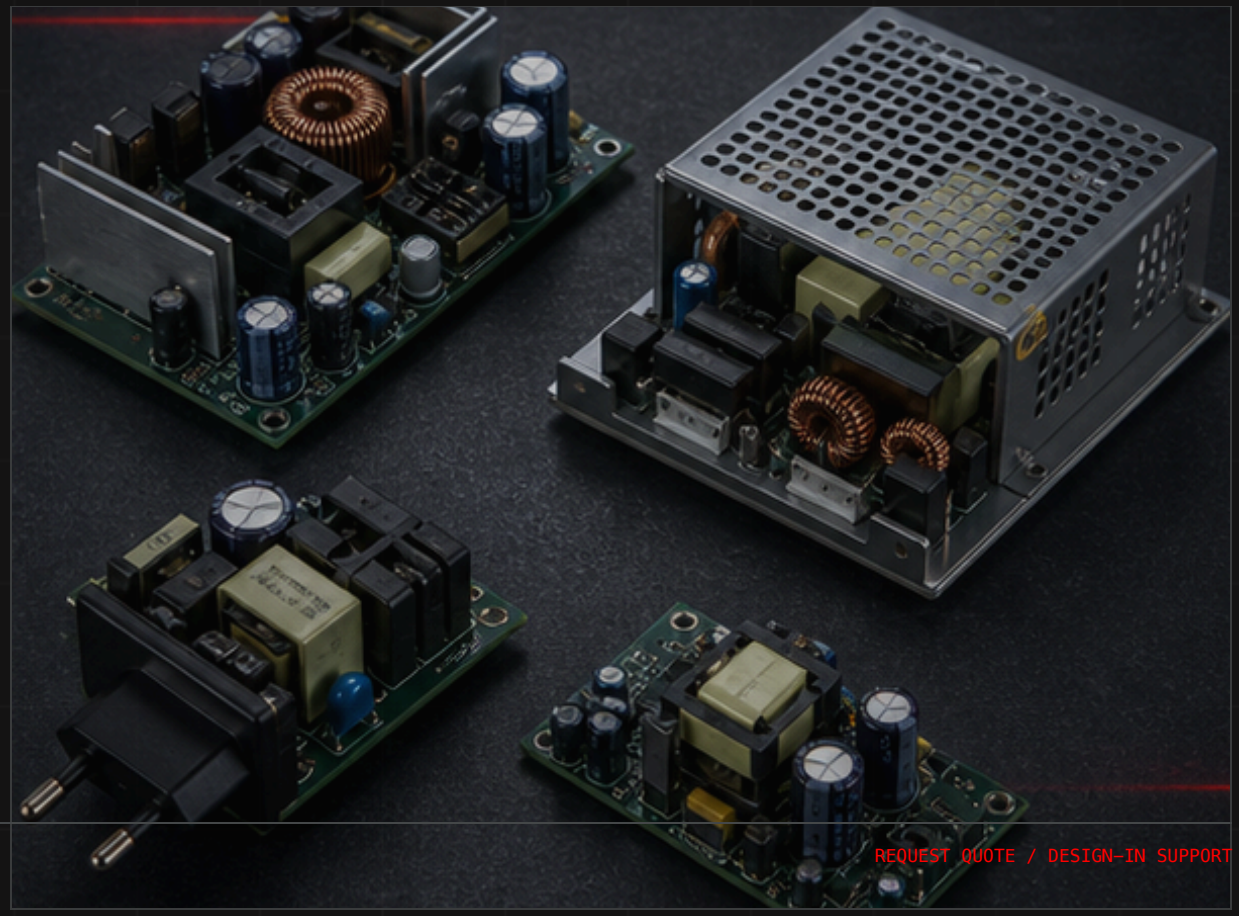
HIGH-DENSITY SWITCHING AND WIDE-BANDGAP EFFICIENCY FOR DEMANDING SYSTEMS.



FAMILY	PERFORMANCE ROLE	APPLICATION
IGBT	650 V / 1200 V classes, 10 A to 600 A current range, low switching losses.	Drives / automotive / renewables
SiC MOSFET	Low conduction loss, high switching frequency, high temperature operation.	E-mobility / power electronics

SCALABLE SWITCHING AND REGULATED INTERFACES FOR PROTECTED POWER DELIVERY.

FAMILY	SPECIFICATION WINDOW	USE CASE
MOSFET	20 V to 45 V discrete options; 30 V to 45 V bare-die options.	Drive / welding / wind / PV
Converters	AC/DC, DC/DC, power supply and plug converter options with protection features.	Industrial / ICT / medical



TARGET APPLICATIONS CONNECT POWER COMPONENTS TO COMMERCIAL DEMAND.

USE-01
Industrial drives

USE-02
E-mobility

USE-03
Renewable energy

USE-04
Photovoltaic systems

USE-05
Battery systems

USE-06
Home appliances

USE-07
Medical applications

USE-08
Railway transportation

USE-09
Industrial control and ICT

TECHNICAL SOURCING IS STRONGEST WHEN STANDARDS AND DOCUMENTATION ARE VISIBLE.

IEC 60747-2 / IEC 60747-9

Used as a trust signal for qualified, traceable and application-ready component selection.

JEDEC JESD51 / JESD22 / JESD95

Used as a trust signal for qualified, traceable and application-ready component selection.

IEC 62368-1 / UL 62368-1

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CISPR 32 / EN 55032

Used as a trust signal for qualified, traceable and application-ready component selection.

COC / COO / TEST REPORTS

Used as a trust signal for qualified, traceable and application-ready component selection.

LONG-TERM AVAILABILITY PLANNING

Used as a trust signal for qualified, traceable and application-ready component selection.